

**Amendments to the Claims:**

1. (Currently amended) A method of ~~providing extracting~~ data of interest from a plurality of web sites, the method comprising:

(A) for each respective web site W in said plurality of web sites,

(i) creating a respective description of data of interest that identifies the web site W;

(ii) developing an extraction pattern [[,]] based on output from the respective web site [[,]] ~~using a graphical user interface tool, the extraction pattern identifying at least a portion of the output of a web site and extracting that extracts~~ information from the respective web site W; and

(iii) associating the developed extraction pattern with the respective description of data of interest for the web site W;

(B) receiving a value that can be used as an extraction parameter for the developed extraction patterns; and

(C) obtaining said data of interest by querying web sites in the plurality of web sites using the value and the extraction patterns associated with the respective descriptions of data of interest, wherein

when the data of interest includes data of interest from at least two web sites of the plurality of web sites, the data of interest from the at least two web sites is provided.

2. (Currently amended) The method of claim 1, wherein the ~~developing is performed using a graphical user interface tool that includes a web browser.~~

3. (Canceled)

4. (Currently amended) The method of claim [[3]] 2, further comprising:
  - applying the extraction pattern to the output of the web site that is displayed in a source view in the web browser thereby identifying the at least a portion of the output for the web site; and
  - displaying a rendered version of the at least a portion of the output of the website-web site.
5. (Currently amended) The method of claim [[3]] 2, wherein the graphical user interface tool further includes a plurality of predefined extraction patterns.
6. (Previously presented) The method of claim 5, wherein the plurality of predefined extraction patterns includes at least one of an extraction pattern for matching a hyperlink, an extraction pattern for matching a form, and an extraction pattern for matching a price.
7. (Currently amended) The method of claim [[3]] 2, wherein the graphical user interface tool further comprises:
  - identifying a form in the output of the web site;
  - creating a step in the description of data of interest corresponding to the web site, the step to submit the form without retrieving the web site;
  - generating a plurality of parameters associated with the step, each parameter in said plurality of parameters corresponding to an input in the form; and
  - associating a parameter in the plurality of parameters with the extraction parameter.
8. (Canceled)
9. (Currently amended) The method of claim [[8]] 1, wherein the defining the plurality of steps comprises developing of an extraction pattern includes receiving a selection of an extraction command from a predetermined list of extraction commands.

10. (Previously presented) The method of claim 9, wherein the predetermined list of extraction commands includes an extraction command for retrieving multiple matches of an extraction pattern from a web site.

11. (Previously presented) The method of claim 9, wherein the predetermined list of extraction commands includes an extraction command for extracting data from a first web site and a second web site, the first web site including a reference to the second web site.

12. (Previously presented) The method of claim 9, wherein at least one step in the plurality of steps includes a test condition comprising a logical test for at least one corresponding argument and a first step in the plurality of steps, and wherein the respective description of data of interest continues executing at the first step when the logical test is satisfied.

13. (Original) The method of claim 12, wherein the at least one corresponding argument includes an extraction pattern.

14. (Previously presented) The method of claim 12, wherein the test condition further comprises a result code that returns an error when the output of the respective web site has changed.

15. (Previously presented) The method of claim 12, wherein the test condition further comprises a result code that returns an error when the output of the respective web site has no information about the product.

16. (Previously presented) The method of claim 9, wherein the predetermined list of extraction commands includes an extraction command for segmenting the output of the respective web site into a plurality of units, each of the plurality of units matching the extraction pattern.

17. (Currently amended) The method of claim 16, wherein ~~at least one step in the plurality of steps uses developing an extraction pattern includes using an extraction command to segment the output of the respective web site into a plurality of units, and wherein the step further includes using a test condition that comprises a logical test and at least one argument, and wherein for each of the plurality of units, the logical test is computed with the at least one argument, and the unit is removed from the plurality of units if the logical test is not satisfied with the at least one argument.~~

18. (Currently amended) An apparatus for extracting information of interest from a plurality of web sites, the apparatus comprising:

(A) for each respective web site W in the plurality of web sites,

(i) means for creating a respective description of data of interest that identifies the web site W;

(ii) means for developing an extraction pattern [[,]] based on output from the web site [[,]] using a graphical user interface tool, the extraction pattern extracting that extracts data from the output of the web site; and

(iii) means for associating the developed extraction pattern with the respective description of data of interest for the web site W;

(B) means for receiving a value that can be used as an extraction parameter in the developed extraction patterns; and

(C) means for obtaining said data of interest by querying web sites in the plurality of web sites using the value and the developed extraction patterns associated with the respective descriptions of data of interest,

wherein, when the data of interest includes data from at least two web sites of the plurality of web sites, the means for providing product information provides the data of interest from the at least two sourc~~e~~es web sites.

19. (Previously presented) The apparatus of claim 18, wherein the means for developing an extraction pattern includes means for selecting an instruction from a predetermined list of instructions.

20. (Presently amended) The apparatus of claim 18, wherein the ~~means for developing includes~~ a graphical user interface tool that comprises a web browser.

21. (Currently amended) A computer data signal embodied in a carrier wave comprising:

(A) a software module for creating a description of data of interest, the software module including;

(i) a set of operations for interactively developing an extraction pattern[[,]] based on output of a target web site using a graphical user interface tool, the developed extraction pattern for obtaining data of interest from the target web site;

(ii) a set of operations for receiving a selection of an instruction from a predefined set of instructions for inclusion in the description of data of interest;

(iii) a set of operations for associating the extraction pattern with the instruction;

(iv) a set of operations for testing the instruction using the extraction pattern and the contents of a buffer, wherein the buffer includes a portion of the output of the web site associated with the description of data of interest; and

(B) a software module for using said description of data of interest to obtain data of interest from the target web site when a value that can be used as an extraction parameter for the developed extraction pattern is provided.

22. (Canceled)

23. (Previously presented) The method of claim 1 wherein said extraction pattern comprises a pre-condition regular expression, a portion of data of interest regular expression, and a post-condition regular expression and wherein said developing comprises refining at least one of said pre-condition regular expression, said portion of data of interest regular expression, and said post-condition regular expression.

24. (Previously presented) The method of claim 23 wherein said portion of data of interest regular expression includes a variable that is replaced with said value for said extraction parameter during said providing.

25. (Previously presented) The method of claim 1 wherein the data of interest is provided incrementally as it is obtained from the plurality of web sites.

26. (Previously presented) The method of claim 1 wherein, the data of interest is obtained from the plurality of web sites and then presented simultaneously.

27. (Previously presented) The apparatus of claim 18 wherein said extraction pattern comprises a pre-condition regular expression, a portion of data of interest regular expression, and a post-condition regular expression and wherein said means for developing comprise refining at least one of said pre-condition regular expression, said portion of data of interest regular expression, and said post-condition regular expression.

28. (Previously presented) The computer data signal of claim 21 wherein said extraction pattern comprises a pre-condition regular expression, a portion of data of interest regular expression, and a post-condition regular expression and wherein said operations for developing comprise refining at least one of said pre-condition regular expression, said portion of data of interest regular expression, and said post-condition regular expression.

29. (Previously presented) The method of claim 1 wherein the data of interest is information associated with a product or information associated with a service.

30. (Previously presented) The apparatus of claim 18 wherein the data of interest is information associated with a product or information associated with a service.

31. (Previously presented) The computer data signal of claim 21 wherein said data of interest is a product, information, or a service.

32. (Currently amended) A computer implemented method of obtaining data of interest from a plurality of web sites comprising:

(A) developing a description of data of interest for each web site in said plurality of web sites [[,]] based on output from the plurality of web sites using a graphical user interface tool that includes a web browser, each respective description of data of interest specifying an address for a corresponding web site in the plurality of web sites and each respective description of data of interest including an extraction pattern identifying at least a portion of the output of a web site and for extracting user specified information from the corresponding web site;

(B) receiving a value that can be used as an extraction parameter for the developed extraction patterns; and

(C) obtaining said data of interest by querying web sites in the plurality of web sites using the value and the extraction patterns in the respective descriptions of data of interest.

33. (Previously presented) The computer implemented method of claim 32 wherein each said extraction pattern comprises a pre-condition regular expression, a portion of data of interest regular expression, and a post-condition regular expression and wherein said developing comprises refining at least one of said pre-condition regular expression, said portion of data of interest regular expression, and said post-condition regular expression.

34. (Previously presented) The computer implemented method of claim 32 wherein said data of interest is a product, information, or a service.